Fig 1 (1)

1	ta	caa	ıtg	<u> 199</u>	tgg	cgga	iggi	gaa	gaa	acgg	99	LLd		CL	atg	CLc	igad	IC '	ycaa	ıgga	ldCd	13161
		У	n	g	v	a	е	v	k	k r	. (3 .	y :	f	У	a	r		t			
		<u>y</u>	n ·	g	٠٨_	a	е	V	n	t e		<u> </u>	1 8	a	n	g	q		<u>i</u>			
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61	l t	aaa	aaa	aatg	, tai	caaa	agco	gt	aaa	aatto	g g	gcag	gtc	gtt	ac	act	cto	ga	ctg	ctg	cgct	·
1	L			n	1 3	y k	S	g	k	n	W	a	v	V	,	t	1	s	t	a	a	
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121	g	gta	ttt	ggt	gca	aaca	acto	, ta	aat	gcato	c	jcgg	jaca	aca	aa	tat	tga	aa	aca	atg	atto	·
										a										_		
181	t	tct	act	gta	caa	igtt	acaa	ca	qqt	gataa	i to	ata	atto	qct	qt	taa	aaq	tq	tqa	cac	ttaa	Ī
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241	t	aqt	aat	caa	. att	aqt	qcaq	ct	agto	gatac	: aa	icta	itta	aσa	ac	tto	tac	t.a	ato	caa	atad	·
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301	to	rct	tct	tct	acc	act.	aata	cae	сааа	aatto	: ta	aca	ato	הבי	αt	aac	aad	++	cta	cta	raat	
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	-	~	_				••	Ū	4	••	J	**	J	4		٧	a	0	۵	a	а	
361	aa	aca:	tca	tet	aca	agt	teca	cac	tot t	catt	22	ata	202	מחם	rai	har	taa	2 <i>1</i> T	aaa	ata	2242	
										s												
50	_	C	J	J	·	b	,	a	, a		1	11	11	L	,	1	.	Λ.	a	a	q	
121	2.2	at:	act	22+	202	~~~	2777	2+6	* ~ + ~	,,,,,,	~~		224	at.	~~			. _				
										acac												
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101	٠.				· L				- - -			_ 4	- 1. 1									
										acgt										_	-	
138	S	е	a	K	n	е	p	a	V	n	V	n	đ	S	٤	5 6	a a	1	k	n	d	
										ccgc												
.58	d	q	q	S	S	k	k	n	t	t.	а	k	1	n	k	: (l a	ì	е	n	V	
										gttt												
78	V	k	k	a	g	i	d	p	n	S	1	t	đ	d	q	i	. k		a	1	n	

Fig 1 (2)

661 gatgaacttc tcgaaagctg caaagtctgg tacacaaatg acttataatg atttccaaaa 198 k m n f s k a a k s g t q m t y n d f q 721 gattgctgat acgttaatca aacaagatgg tcggtacaca gttccattct ttaaagcaag 20ftfi < 218 kiad tli kqd gryt vpf fka 781 tqaaatcaaa aatatgcctg ccgctacaac taaagatgca caaactaata ctattgaacc 238 seik nmpaattkda qtn tie 841 tttagatgta tgggattcat ggccagttca agatgttcgg acaggacaag ttgctaattg 5ftf > 258 pldv wds wpv qdvr tgq van 8ftfi < 901 qaatggctat caacttgtca tcgcaatgat gggaattcca aaccaaaatg ataatcatat 278 w n q y q l v i a m m q i p n q n d n h 961 ctatctctta tataataagt atggtgataa tgaattaagt cattggaaga atgtaggtcc 298 i y l l y n k y g d n e l s h w k n v g1021 aatttttggc tataattcta ccgcggtttc acaagaatgg tcaggatcag ctgttttgaa 7ftf > 318 pifgynstav sqew sgs av l 6ftfi < 1081 cagtgataac tctatccaat tattttatac aagggtagac acgtctgata acaataccaa 338 n s d n s i q l f y t r v d t s d n n t 1141 tcatcaaaaa attgctagcg ctactcttta tttaactgat aataatggaa atgtatcact NheI 358 nhqkias atlyltd nng nvs 1201 cgctcaggta cgaaatgact atattgtatt tgaaggtgat ggctattact accaaactta AC2(i)<> 378 laqvrndyiv fegdgyy y qt 1261 tgatcaatgg aaagctacta acaaaggtgc cgataatatt gcaatgcgtg atgctcatgt 398 y dqw kat nkg adni amr dah

Fig 1 (3)

- 1321 aattgaagat ggtaatggtg atcggtacct tgtttttgaa gcaagtactg gtttggaaaa 418 v i e d g n g d r y l v f e a s t g l e
- 1381 ttatcaaggc gaggaccaaa tttataactg gttaaattat ggcggagatg acgcatttaa 438 n y q g e d q i y n w l n y g g d d a f
- 1441 tatcaagagc ttatttagaa ttctttccaa tgatgatatt aagagtcggg caacttgggc 458 n i k s l f r i l s n d d i k s r a t w
- 1501 taatgcagct atcggtatcc tcaaactaaa taaggacgaa aagaatccta aggtggcaga 478 a n a a i g i l k l n k d e k n p k v a
- 1561 gttatactca ccattaattt ctgcaccaat ggtaagcgat gaaattgagc gaccaaatgt 498 e l y s p l i s a p m v s d e i e r p n
- 1621 agttaaatta ggtaataaat attacttatt tgccgctacc cgtttaaatc gaggaagtaa 518 v v k l g n k y y l f a a t r l n r g s
- 1681 tgatgatgct tggatgaatg ctaattatgc cgttggtgat aatgttgcaa tggtcggata 538 n d d a w m n a n y a v g d n v a m v q
- 1741 tgttgctgat agtctaactg gatcttataa gccattaaat gattctggag tagtcttgac 558 y v a d s l t g s y k p l n d s g v v l
- 1801 tgcttctgtt cctgcaaact ggcggacagc aacttattca tattatgctg tccccgttgc
 578 t a s v p a n w r t a t y s y y a v p v
- 1861 cggaaaagat gaccaagtat tagttacttc atatatgact aatagaaatg gagtagcggg
 598 a g k d d q v l v t s y m t n r n g v a
 - 1921 taaaggaatg gat<u>tcaactt gggcaccgag tttctt</u>acta caaattaacc cggataacac 12ftfi < 618 g k g m d s t w a p s f l l q i n p d n

Fig 1 (4)

1981	l a	acta	acto	jtt	tta	gcta	aaaa	. tga	acta	aatca	a	3 999	jatt	gg	attt	ggg	gatg	att	caa	igcga
638	3 t	t	t	V	1	a	k	m	t	n	q	g	d	W	i	W	d	d	S	s
2041	l a	aato	cttg	jat	atg	att	ggtg	att	tag	gacto	: cg	gctg	rctt	ta	cctg	gcg	jaac	gtg	ata	aacc
658	3 e	n	1	ď	. m	i	g	d	1	d	S	a	a	1	p	g	е	r	d	k
2101	l t	gtt	gatt	gg	gac	ttaa	attg	gtt	ato	gatt	aa	aaac	cgc	at	gato	cctg	cta	cac	caa	atga
678	} p	V	d	W	d	1	i	g	У	g	1	k	p	h	d	р	a	t	р	n
2161	. t	ccto	jaaa	cg	ccaa	acta	acac	cag	jaaa	eccc	tç	jaga	cac	ct	aata	ictò	cca	aaa	cac	caaa
698	<u>d</u>	р	е	t	р	·t	t	р	е	t	р	е	t	р	n	t	р	k	t	р
2221	. g	acto	ctg	aa	aato	cctg	gga	cac	ctc	aaac	to	cta	ata	ca	ccta	ata	ctc	cgg	aaa	ttcc
					n															
2281	ti	taa	ctc	ca	gaaa	cgc	cta	agc	aac	ctga	aa	.CCC	aaa	ct	aata	atc	gtt	tgc	cac	aaac
138	þ	1	<u> </u>	р	e	τ	р	к	q	<u>p</u>	<u>e</u>	<u>t</u>	q	t	n	n	r	1	p	q
2341	tç	gaa	ata	at	gcca	ata	aag	cca	tga	ttgg	CC	tag	gtai	tg	ggaa	cat	tgc	tta	gta	tgtt
758	τ	g	n	n	a	n	К	a	m	ĺ	g	1	g	m	g	t	1	1	S	m
2401	tg f	gtc	ttg(ca	gaaa e	tta	aca	aac	gtc	gatt	ta	act	aa at	a	cttt	aaa	ata	aaa	ccg	ctaa
110	L	9		а	C	1	11	K	L	ľ	L	n	-							
2461	go	ctt	aaat	t	cagc	tta	acg	gtti	tti	tatt	tta	aaaa	agtt	t	ttati	tgta	aaa	aaag	gega	aatt
2521	at	catt	aat	a	ctaa	tgca	aat	tgtt	gta	aaga	cct	tac	gac	a	gtagt	caac	caa	tgaa	ittt	gcc
2581	ca	tctt	tgt	c	gg															

NheI

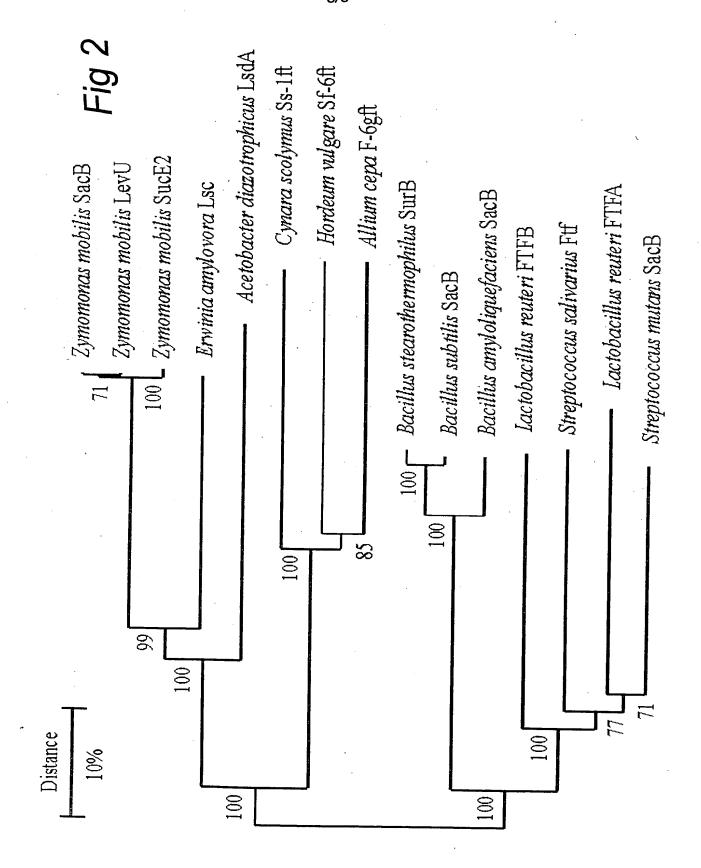


Fig 3

The N-terminal sequence of FTFB (levansucrase):
(A) Q V E S N N Y N G V A E V N T E R Q A N G Q I (G) (V) (D).

Internal peptide sequences of FTFB (levansucrase):

- (M) (A) H L D V W D S W P V Q D P (V),
- NAGSIFGT(K),
- V(E)(E) V Y S P K V S T L M A S D E V E.

Fig 4

5fff			
B. amyloliquefaciens SacB	80	GLDVWDSWPLQNAD 93	
B. subtilis SacB	82	GLDVWDSWPLQNAD 95	
S. mutans SacB	243	DLDVWDSWPVQDAK 256	
S. salivarius Ftf	282	EIDVWDSWPVQDAK 295	

eftfi			
B. amyloliquefaciens SacB	156	QTQEWSGSATFTSDGK	171
B. subtilis SacB	158	QT QEWSGSAT FTSDGK	173
S. mutans SacB	312	LTQEWSGSATVNEDGS	327
S. salivarius Ftf	351	DDQQWSGSATVNSDGS	366
		** *****	
12ftfi			
B. amyloliquefaciens SacB	440	KATFGPSFLMN	450
B. subtilis SacB	440	OSTFAPSFLLN	450
S. mutans SacB	609	NSTWAPSFLIQ	619
S. salivarius Ftf	655	KSTWAPSFLIK	665

